Substitute for PTO/SB/21 (07-06)"Transmittal Form"
Approved for use through 09/30/2006. OMB 0651-0031
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Application Number 10/553,117 MAR 0 5 2007 **TRANSMITTAL** October 13, 2005 Filing Date **FORM** First Named Inventor Aiyar, J. et al. Art Unit T/B/A used for all correspondence after initial filing) T/B/A **Examiner Name** 11 + Refs MS0019P Total Number of Pages in This Submission Attorney Docket Number **ENCLOSURES** (Check all that apply) After Allowance Communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Licensing-related Papers Fee Attached Appeal Communication to Board Petition of Appeals and Interferences Amendment/Reply Petition to Convert to a Appeal Communication to TC **Provisional Application** After Final (Appeal Notice, Brief, Reply Brief) Power of Attorney, Revocation Affidavits/declaration(s) Proprietary Information Change of Correspondence Address Extension of Time Request Status Letter __ Terminal Disclaimer Express Abandonment Request Other Enclosure(s) (please Request for Refund Identify below): **☒** Information Disclosure Statement CD, Number of CD(s) Certified Copy of Priority Document(s) Remarks Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53

	SIGNATUR	OF APPLICANT, ATTORNEY, OR AGENT	
Name	Vineet Kohli	Registration No. (Attorney/Agent)	37,003
Signature	1/200	Date	2/28/2007
	CERTIF	CATE OF TRANSMISSION/MAILING	
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Jeni Schiffman

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2/28/07

Date

PATENT Case No. MS0019P

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HE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants al.

Serial No. 10/553,117

Filed: October 13, 2005

For: SPLICE VARIANTS OF HUMAN VOLTAGE-GATED CALCIUM CHANNEL α2β-2 SUBUNIT DESIGNATED α2β2-A AND α2β2-B

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- 4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

By J. Achiffman Date 2/28/07

RELATED APPLICATION

MERCK CASE

FILING DATE

INFORMATION DISCLOSURE STATEMENT

5. Pursuant to R. 1.98(d), copies of references listed on the attached form that were submitted to or cited by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

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If th	is is inconvenient, additional copies will be submitted upon request		
(6. In accordance with 37 C.F.R. 1.97, (check one)		
	the attached information is filed within three months of the filing date	e of the captioned case.	
\checkmark	the attached information is filed more than three months after the file Office Action on the merits.	ling date but prior to the ma	ailing of a first
	the attached information is filed before the mailing of a first Office a examination under §1.114.	action after the filing of a re	quest for continued
	the attached information is being filed more than three months after Office Action on the merits, but before the mailing date of a Final A otherwise closes prosecution in the application. The enclosed auth Account No. 13-2755 for the fee required under 37 C.F.R. 1.17(p).	ction, Notice of Allowance,	or an action that
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	each item of information contained in the information disclosure staffrom a foreign patent office in a counterpart application and this codesignated in §1.56(c) more than thirty days prior to the filing of the	mmunication was not recei	ved by any individual
	no item of information contained in this Information Disclosure Stat foreign patent office in a counterpart foreign application, and, to the after making reasonable inquiry, was known to any individual design months prior to the filing of this Statement.	knowledge of the person	signing the certification

Respectfully submitted,
Ventable
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Date: February 28, 2007

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INFO	RMATIO	N DISCI	LOSURE	Application Number	10/553,117	
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****		U.S. Patent Document	0.00.1.	ATENT DOCUMENTS	
Examiner Initials*	Cite No.	Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Α	US2002/0147309		Lipscombe et al.	10/10/2002
	В	5,571,893		Baker et al.	11/05/1996
	С	5,569,825		Lonberg et al.	10/29/1996
	D	5,567,610		Borrebaeck et al.	10/22/1996
	E	5,565,354		Ostberg et al.	10/15/1996
	F	5,559,004		Steinhardt et al.	09/24/1996
_	G	5,429,921		Harpold et al.	07/04/1995
	H	5,399,346		Anderson et al.	03/21/1995
	I	5,312,928		Goldin et al.	05/17/1994
	J	5,225,539		Winter et al.	07/06/1993
	K	4,946,778		Ladner et al.	08/07/1990
	L	4,816,567		Cabilly et al.	03/28/1989
	M	4,642,285		Halbert et al.	02/10/1987
	N	4,376,110		David et al.	03/08/1983

	FOREIGN PATENT DOCUMENTS									
Everniner	Cite		Foreign Patent Document		Name of Potentos on Applicant	Date of Publication of				
Examiner Initials*	No.	Office	Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY				
	0	PCT	WO 01/70949		Graham et al.	09/27/2001				
	P	PCT	WO 92/04381		Harris et al.	03/19/1992				
	Q	EP	EP 0 125 023		Cabilly et al.	06/05/1991				
	R	PCT	WO 87/02671		Robinson et al.	05/07/1987				
_	S	PCT	WO 86/01533		Neuberger et al.	03/13/1986				
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	NFORMATION	DIS	CLOSURE	Application Number	10/553,117		
				Filing Date	October 13, 2005		
S	STATEMENT BY APPLICANT			First Named Inventor	Aiyar et al.		
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Sheet	2	of	8	Attorney Docket Number	MS0019P		

		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
	1	Tsien et al., "Multiple Types of Neuronal Calcium Channels and Their Selective Modulation", Trends Neurosci., 11(10):431-438, 1988
	2	Catterall, W. A., "Structure and Regulation of Voltage-Gated Ca2+ Channels", Annual Rev. Cell Dev. Biol., 16:521-555, 2000
	3	Llinas et al., "Distribution and Functional Significance of the P-type, Voltage-dependent Ca2+ Channels in the Mammalian Central Nervous System", Trends Neurosci., 15(9):351-355, 1992
	4	Hess, P., "Calcium Channels in Vertebrate Cells", Annual Review Neurosci., 56:337-356, 1990
	5	Bean, B. P., "Classes of Calcium Channels in Vertebrate Cells", Annual. Rev. Physiol., 51:367-384, 1989
	6	Hille, B., Ion Channels of Excitable Membranes, 3rd Ed., Sinauer Associates, Sunderland, Mass., 2001
	7	Marais et al., "Calcium Channel α2δ Subunits - Structure and Gabapentin Binding", Molecular Pharmacology, 59(5):1243-1248, 2001
	8	Dunlap et al., "Exocytotic Ca2+ Channels in Mammalian Central Neurons", Trends Neurosci., 18(2):89-98, 1995
	9	Varadi et al., "Molecular Determinants of Ca2+ Channel Function and Drug Action", Trends Pharmacol. Sci., 16:43-49, 1995
	10	Nooney et al., "Identifying Neuronal non-L Ca2+ channels - More than Stamp Collecting?", Trends Pharmacol. Sci., 18:363-371, 1997
	11	Perez-Reyes et al.,"Molecular Characterization of a Neuronal Low-voltage-activated T-type Calcium Channel", Nature, 391:896-900, 1998
	12	DeWaard et al., "Structural and Functional Diversity of Voltage-activated Calcium Channels", Ion Channels, ed. T. Narahashi, pages 41-87, Plenum Press, New York, 1996
	13	Catterall, W. A., "Excitation-Contraction Coupling in Vertebrate Skeletal Muscle: A Tale of Two Calcium Channels", Cell, 64:871-874, 1991
	14	Catterall, W. A., "Functional Subunit Structure of Voltage-Gated Calcium Channels", Science, 253:1499-1500, 1991
	15	Hofmann et al., "Voltage-Dependent Calcium Channels: From Structure to Function", Rev. Physiol. Biochem. Pharmacol., 139:33-87, 1999

Examiner Signature Date Considered			
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I	NFORMATION I	DIS	CLOSURE	Application Number	10/553,117		
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S	TATEMENT BY	AP	PLICANI	First Named Inventor	Aiyar et al.		
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		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
:	16	Lacinova et al., "Low Voltage Activated Calcium Channels: from Genes to Function", Gen. Physiol. Biophys., 19:121-136, 2000
	17	Perez-Reyes, E. & Schneider, "Molecular Biology of Calcium Channels", Kidney International, 48:1111-1124, 1995
	18	Ellis et al., "Sequence and Expression of mRNAs Encoding the α1 and α2 Subunits of a DHP-Sensitive Calcium Channel", Science, 241:1661-1664, 1988
	19	Schmid et al., "Immunochemical Analysis of Subunit Structures of 1,4-Dihydropyridine Receptors Associated with Voltage-Dependent Ca2+ Channels in Skeletal, Cardiac, and Smooth Muscles", Biochemistry, 25:3492-3495, 1986
	20	Angelotti & Hofmann, "Tissue-specific Expression of Splice Variants of the Mouse Voltage-gated Calcium Channel α2/δ subunit", Febs Lett., 397: 331-337, 1996
	21	Klugbauer et al., "Molecular Diversity of the Calcium Channel α2δ Subunit", J. Neuroscience, 19:(2)684-691, 1999
	22	DeJongh et al., "Subunits of Purified Calcium Channels", J. Biol. Chem., 265(25):14738-14741, 1990
	23	Jay et al., "Structural Characterization of the Dihydropyridine-sensitive Calcium Channel α 2-Subunit and the Associated δ Peptides", J. Biol. Chem., 266(5):3287-3293, 1991
	24	Gao et al., "Functional Properties of a New Voltage-dependent Calcium Channel α2δ Auxiliary Subunit Gene (CACNA2D2)", J. Biol. Chem., 275(16):12237-12242, 2000
	25	Gurnett et al., "Dual Function of the Voltage-Dependent Ca2+ Channel α2δ Subunit in Current Stimulation and Subunit Interaction", Neuron, 16:431-440, 1996
	26	Felix et al., "Dissection of Functional Domains of the Voltage-Dependent Ca2+ Channel α2δ Subunit", J. Neurosci., 17(18):6884-6891, 1997
	27	Gee et al., The Novel Anticonvulsant Drug, Gabapentin (Neurontin), Binds to the α2δ Subunit of a Calcium Channel", J. Biol. Chem., 271(10):5768-5776, 1996
	28	Bito et al., "Ca2+-dependent Regulation in Neuronal Gene Expression", Curr. Opin. Neurobiol., 7:419-429, 1997
	29	Toyota et al., "Inactivation of CACNAIG, a T-Type Calcium Channel Gene, by Aberrant Methylation of Its 5' CpG Island in Human Tumors", Cancer Research, 59:4535-4541, 1999

Examiner Signature	Date Considered	

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Si	Substitute for form 1449B/PTO		COMPLETE IF KNOWN			
	NFORMATION	DIS	CLOSURE	Application Number	10/553,117	
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STATEMENT BY APPLICANT				First Named Inventor	Aiyar et al.	
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	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.					
	30	Charlier et al., "A Pore Mutation in a Novel KQT-like Potassium Channel Gene in an Idiopathic Epilepsy Family", Nature Genet., 18:53-55, 1998					
	31	Singh et al., "A Novel Potassium Channel Gene, KCNQ2, is Mutated in an Inherited Epilepsy of Newborns", Nature Genet., 18:25-29, 1998					
	32	Biervert et al., "A Potassium Channel Mutation in Neonatal Human Epilepsy", Science, 279:403-406, 1998					
	33	Burgess et al., "Mutation of the Ca2+ Channel β Subunit Gene <i>Cchb4</i> is Associated with Ataxia and Seizures in the Lethargic (<i>lh</i>) Mouse", Cell, 88:385-392, 1997					
	34	Fletcher et al., "Absence Epilepsy in Tottering Mutant Mice is Associated with Calcium Channel Defects", Cell, 87:607-617, 1996					
·	35	Wang et al., "Structural Requirement of the Calcium-channel subunit α2δ for Gabapentin Binding", Biochem. J., 342:313-320, 1999					
	36	Stefani et al., "Gabapentin Inhibits Calcium Currents in Isolated Rat Brain Neurons", Neuropharmacology, 37:83-91, 1998					
	37	Burgess & Noebels, "Single Gene Defects in Mice: The Role of Voltage-dependent Calcium Channels in Absence Model", Epilepsy Research, 36:111-122, 1999					
	39	Needleman & Wunsch, "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol., 48:443-453, 1970					
	39	Smith & Waterman, "Comparison of Biosequences", Advances in Applied Mathematics, 2:482-489, 1981					
	40	Rothenberg, M., et al., "Oligodeoxynucleotides as Anti-sence Inhibitors of Gene Expression: Therapeutic Implications", Journal of the National Cancer Institute, 81(20):1539-1544, 1989					
	41	Nielsen, P. E., et al., "Peptide Nucleic Acids (PNAs): Potential Anti-sense and Anti-gene Agents", Anti-Cancer Drug Design, 8:53-63, 1993					
	42	Mizushima & Nagata, "pEF-BOS, a Powerful Mammalian Expression Vector", Nucleic Acids Research, 18(17):5322, 1990					
	43	Demoulin et al., "A Single Tyrosine of the Interleukin-9 (IL-9) eceptor is Required for STAT Activation, Antiapoptotic Activity, and Growth Regulation by IL-9", Molecular and Cellular Biology, 16(9):4710-4716, 1996					
	44	Gregoriadis, G., "Liposomes for Drugs and Vaccines", Trends in Biotechnology, 3(9):235-241, 1985					

Examiner Date Considered			
4-B		Date Considered	

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	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.					
	45	Hyrup, B. et al., "Peptide Nucleic Acids (PNA): Synthesis, Properties and Potential Applications", Bioorganic & Medicinal Chemistry, 4(1):5-23, 1996					
-	46	Perry-O'Keefe et al., "Peptide Nucleic Acid Pre-gel Hybridization: An Alternative to Southern Hybridization", Proc. Natl. Acad. Sci., 93:14670-675 (1996)					
	47	Finn, P. J. et al., "Synthesis and Properties of DNA-PNA Chimeric Oligomers", Nucleic Acids Research, 24(17):3357-3363, 1996					
	48	Mag, M. et al., "Synthesis and Selective Cleavage of Oligodeoxyribonucleotides Containing Non-chiral Internucleotide Phosphoramidate Linkages", Nucleic Acids Research, 17(15):5973-5988, 1989					
	49	Petersen, K. H. et al., "A PNA-DNA Linker Synthesis of N-((4,4'-Dimethoxytrityloxy)Ethyl)-N-(Thymin-1-Ylacetyl)Glycine", Bioorganic Medicinal Chemistry Letters, 5(11):1119-1124, 1995					
	50	Letsinger et al., "Cholesteryl-conjugated Oligonucleotides: Synthesis, Properties, and Activity as Inhibitors of Replication of Human Immunodeficiency Virus in Cell Culture", Proc. Natl. Acad. Sci., 86:6553-6556, 1989					
	51	Dahiyat & Mayo, "De Novo Protein Design: Fully Automated Sequence Selection", Science, 278:82-87, 1997					
	52	Lin et al., "Identification of Functionally Distinct Isoforms of the N-Type Ca2+ Channel in Rat Sympathetic Ganglia and Brain", Neuron, 18:153-166, 1997					
	53	Henikoff & Henikoff, "Amino Acid Substitution Matrices from Protein Blocks", Proc. Natl. Acad. Sci., 89:10915-10919, 1992					
	54	Kozber, J. et al., "A Human Hybrid Myeloma for Production of Human Monoclonal Antibodies", J. of Immunology., 133(6):3001-3005, 1984					
	55	Brodeur et al., "Mouse-Human Myeloma Partners for the Production of Heterohybridomas", Monoclonal Antibody Production Techniques & Applications, Marcel Dekker Inc., New York, p. 51-63, 1987					
	56	Jakobovits et al., "Analysis of Homozygous Mutant Chimeric Mice: Deletion of the Immunoglobulin Heavy-chain Joining Region Blocks B-cell Development and Antibody Production", Proc. Natl. Acad. Sci., 90:2551-2555, 1993					
	57	Clark, W. R., The Experimental Foundations of Modern Immunology, Fourth Edition, John Wiley & Sons, New York, 1991					
	58	Better et al., "Escherichia Coli Secretion of an Active Chimeric Antibody Fragment", Science, 240:1041-1043; 1988					
	59	Liu et al., "Chimeric mouse-human IgG1 Antibody That Can Mediate Lysis of Cancer Cells", Proc. Natl. Acad. Sci., 84:3439-3443, 1987					

Examiner Signature	-	Date Consid	ered

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STATEMENT BY APPLICANT			PLICANI	First Named Inventor	Aiyar et al.	
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		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
	60	Oi et al., "Chimeric Antibodies", Bio Techniques, 4(3):214-220, 1986
	61	Ward et al., "Binding Activities of a Repertoire of Single Immunoglobulin Variable Domains Secreted From Escherichia Coli", Nature, 341:544-546, 1989
	62	Lazereno & Birdsall, "Pharmacological Characterization of Acetylcholine-stimulated [35S]-GTPγS Binding Mediated by Human Muscarinic m1-m4 Receptors: Antagonist Studies", Br. J. Pharmacol., 109:1120-1127, 1993
	63	Coward, P. et al., "Chimeric G Proteins Allow a High-Throughput Signaling Assay of Gi-Coupled Receptors", Analytical Biochemistry, 270:242-248, 1999
	64	Sebastian Lazareno, "Measurement of Agonist-Stimulated [35S]GTPγS Binding to Cell Membranes", Methods in Molecular Biology, 106:231-245 (1999)
	65	Zlokarnik et al., "Quantitation of Transcription and Clonal Selection of Single Living Cells with β-Lactamase as Reporter", Science, 279:84-88, 1998
	66	Wainscott et al., "Pharmacological Characteristics of the Newly Cloned Rat 5-Hydroxytryptamine 2F Receptor", Mol. Pharmacol., 43:419-426, 1992
	67	Fields, S. and Song, O., "A Novel Genetic System to Detect Protein-protein Interactions", Nature, 340:245-246, 1989
	68	Ho et al., "Dimeric Ligands Define a Role for Transcriptional Activation Domains in Reinitiation", Nature, 382:822-826, 1996
	69	Licitra & Liu, "A Three-hybrid Ssytem for Detecting Small Ligan-Protein Receptor Interactions", Proc. Natl. Acad. Sci., 93:12817-12821, 1996
	70	Young et al., "Identification of a Calcium Channel Modulator Using a High Throughput Yeast Two-hybrid Screen", Nature Biotech, 16:946-950, 1998
	71	Wahl et al., "Improved Radioimaging and Tumor Localization with Monoclonal F(ab')2, Journal of Nuclear Medicine, 24(4):316-325, 1983
	72	Mishina et al., "Location of Functional Regions of Acetylcholine Receptor α-subunit by Site-directed Mutagenesis", Nature, 313:364-369; 1985
	73	Noda et al., "Expression of Functional Sodium Channels From Cloned cDNA", Nature, 322:826-828
	74	Price, C. M., "Fluorescence In Situ Hybridization", Blood Rev., 7:127-134, 1993

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Sheet	7	of	8	Attorney Docket Number	MS0019P

		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
	75	Trask, B. J., "Fluorescence in situ Hybridization: Applications in Cytogenetics and Gene Mapping", Trends Genet., 7(5):149-154, 1991
	76	Egeland, J. et al., "Bipolar Affective Disorders Linked to DNA Markers on Chromosome 11", Nature, 325:783-787, 1987
	77	D'Eustachio P. et al., "Somatic Cell Genetics and Gene Families", Science, 220:919-924, 1983
	78	Verma et al., Human Chromosomes: A Manual of Basic Techniques, Pergamon Press, New York, 1989
	79	Fan, Y. et al., "Mapping Small DNA Sequences by Fluorescence in situ Hybridization Directly on Banded Metaphase Chromosomes", Proc. Natl. Acad. Sci., 87:6223-6227, 1990
	80	Gatti, R. A. et al., "Localization of an Ataxia-telagiectasia Gene to Chromosome 11q22-23", Nature, 336:577-580, 1988
	81	Lichtenstein, C., "Anti-sense RNA as a Tool to Study Plant Gene Expression", Nature, 333:801-802, 1988
	82	Cohen, Jack S., "Designing Antisense Oligonucleotides as Pharmaceutical Agents", Trends in Pharm. Sci., 10:435-437, 1989
	83	Weintraub, Harold M., "Antisense RNA and DNA", Scientific American, 262:40-46, 1990
	84	Sarver et al., "Ribozymes as Potential Anti-HIV-1 Therapeutic Agents", Science, 247:1222-1225, 1990
	85	Maddox, D. E. et al., "Elevated Serum Levels in Human Pregnancy of a Molecule Imunochemically Similar to Eosinophil Granule Major Basic Protein", J. Exp. Med., 158:1211-1226, 1983
	86	Melby, P. C. et al., "Quantitative Measurement of Human Cytokine Gene Expression by Polymerase Chain Reaction", J. Immunological Methods, 159:235-244, 1993
	87	Duplaa, C. et al., "Quantitative Analysis of Polymerase Chain Reaction Products Using Biotinylated dUTP Incorporation", Analytical Biochemistry, 212:229-236 (1993)
	88	Brinster et al., "Factors Affecting the Efficiency of Introducing Foreign DNA Into Mice by Microinjecting Eggs", Proc. Natl. Acad. Sci., 82:4438-4442, 1985
	89	Brinster et al., "Somatic Expression of Herpes Thymidine Kinase in Mice Following Injection of a Fusion Gene into Eggs", Cell, 27:223-231, 1981

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^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	ubstitute for form 1449B/PTO			COMPLETE IF KNOWN			
_	NFORMATION	DIS	CLOSURE	Application Number	10/553,117		
		7 A T	DI ICANT	Filing Date	October 13, 2005		
3	IAIEWENI BY	Filing Date First Named In Group Art Unit	First Named Inventor	Aiyar et al.			
			,	Group Art Unit			
	(use as many sheets as necessary)	Examiner Name					
Sheet	8	of	8	Attorney Docket Number	MS0019P		

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.					
	90	Costantini et al., "Introduction of a Rabbit β-globin Gene Into the Mouse Germ Line", Nature, 294:92-94, 1981					
	91	Harbers et al., "Microinjection of Cloned Retroviral Genomes Into Mouse Zygotes: Integration and Expression in the Animal", Nature, 293:540-542, 1981					
	92	Wagner et al., "The Human β-globin Gene and a Functional Viral Thymidine Kinase Gene in Developing Mice", Proc. Natl. Acad. Sci., 78(8):5016-5020, 1981					
	93	Jaenisch et al., "Germ Line Integration and Mendelian Transmission of the Exogenous Moloney Leukemia Virus", Proc. Natl. Acad. Sci., 73(4):1260-1264, 1976					

Examiner Signature		Date Considered	

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